

PUBLIC HEALTH ACT, 1875.

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THE  
**Urban District Council**  
FOR THE  
CITY OF DURHAM.

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**ANNUAL REPORT**

FOR THE YEAR 1904,

BY THE  
**Medical Officer of Health.**



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TO THE  
URBAN DISTRICT COUNCIL  
FOR THE  
CITY OF DURHAM.

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GENTLEMEN,

I beg to submit to you my Annual Report on the Durham Urban District for the year 1904.

The area of the District (exclusive of area covered by water) is 884 acres.

The number of houses at the present time is 2,732. At the Census of 1901 the number was 2,490.

The population at the Census of 1901 was 14,659. For the years 1902 and 1903 the population was estimated by natural increase at 14,700 and 14,785 respectively.

For the year 1904, I estimate the population to be 14,875. This figure is arrived at solely by consideration of births and deaths, it being of course impossible to estimate the arrivals to, or departure from, the town.

BIRTHS.—444 births have been registered during the year—160 in the St. Nicholas' Sub-district, and 284 in the St. Oswald Sub-district. The corresponding figures for the previous year were 443, 154, and 289 respectively.

Of the total, 228 were males and 216 females.

In the St. Nicholas Sub-district, 84 were males and 76 females, whilst in the St. Oswald Sub-district the figures were 144 and 140 respectively.

The annual Birth-rate is therefore 29·8, which is slightly higher than the average rate for the past 10 years, viz., 28·0.

From statistics supplied by the County Medical Officer, I find that the County Rate is 35·6, as against 35·8 for the year 1903.

The mean County Rate for the 10 years 1894-1903 was 35·4.

It will be seen, therefore, that our rate is considerably lower than that of the Administrative County.

Detailed information as to number of births and rates, together with Infant Mortality statistics during the past 10 years, will be found on Table I. appended to this report.

I have information as to the yearly number of births since the year 1875, as shewn in the following Table :—

TABLE OF BIRTHS IN THE YEARS 1875 TO 1904  
INCLUSIVE.

1875—534	1890—382
1876—493	1891—405
1877—536	1892—432
1878—508	1893—378
1879—509	1894—421
1880—465	1895—479
1881—413	1896—428
1882—439	1897—432
1883—438	1898—374
1884—413	1899—398
1885—420	1900—354
1886—406	1901—443
1887—420	1902—391
1888—431	1903—443
1889—388	1904—444



DEATHS.—The total number of deaths registered as occurring in the District during the year is 334 as against 322 in the year 1903, and 296 in the year 1902.

In Table IV. appended to this Report will be found particulars as to the causes of death, ages, localities, and number of deaths from the several causes in Public Institutions in the District.

74 deaths of non-residents, that is persons not belonging to the Districts, occurred in Public Institutions in the borough. Whilst on the other hand 4 persons belonging to our district died during the year in Public Institutions outside.

Total deaths during the year	...	...	334
Deduct non-residents	...	...	74
			<hr/>
			260
Add residents dying in outside institutions	...		4
			<hr/>
True Mortality	...		264

In the previous year the total deaths were 322, deaths of non-residents 52, and of residents outside 3, making a true mortality of 273.

The death-rate for the year is, therefore, 17·7 per thousand, as against 18·4 for 1903, 16·8 for 1902, and 22·3 for 1901.

The rate compares favourably with our average death-rate for the years 1894-1903 inclusive, viz., 19·8.

For the Administrative County the rates have been as follows:—

Year 1904	...	...	...	18·3
Year 1903	...	...	...	17·7
Mean rate for 10 years 1894-1903			...	18·0

The distribution as to ages in the deaths is as follows :—

69 deaths occurred under the age of 1 year.									
35	„	„	between ages of		1	and	5	years.	
8	„	„	„	„	5	„	15	„	
8	„	„	„	„	15	„	25	„	
87	„	„	„	„	25	„	65	„	
57	„	„	at age of 65 and upwards.						

In Public Institutions in the District the following deaths have occurred, viz. :—

Durham County Hospital	...	...	55
Durham Union Workhouse	...	...	45
H.M. Prison	...	...	6
Gilesgate Isolation Hospital	...	...	2
			—
			108

of whom 74 were persons not belonging to the District.

In Public Institutions outside the District there have died persons belonging to the borough as follows :—

Durham County Asylum	...	...	4
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DEATHS DUE TO ZYMOTIC DISEASES.—Zymotic diseases have been the cause of deaths in 17 instances. Under this heading we include deaths from Small-pox, Measles, Scarlet Fever, Whooping Cough, Diphtheria, Fevers (Enteric, &c.), and Diarrhœa.

In Table IV. will be found the numbers due to each disease, classified also as to ages.

Our Zymotic rate for the year is 1·14 as against 1·35 in the previous year, and compares favourably with the corresponding County rates, viz. :—2·59 and 2·01.

I have compiled the following Table shewing deaths from Zymotic diseases in this city during the past 20 years, as I think it will be found most interesting for comparison, and repay careful study. It will be found

on examination that, taking the 20 years 1884 to 1903 inclusive, during the decade '84 to '93, the total Zymotic deaths was 250. Whereas in the decade '94 to '03 the corresponding number was 183.

This surely is a matter on which we may fairly congratulate ourselves, and one which shews very clearly that the efforts of the Council and its officers to improve the sanitary conditions of our town have not been in vain.

I would particularly draw attention to the columns shewing the number of deaths from Enteric and Continued fevers, that group of diseases which perhaps more than any other is so connected with and dependent on insanitary conditions. Here we find a most marked and highly satisfactory diminution in the figures, viz.—in the first decade 32, in the second decade 14.

Taking the first five years, '84-'88 inclusive, the number is 19; whilst in the five years, 1900-1904 inclusive, the number is 3.

These figures, I think, provide the most conclusive evidence of the value of our work during this period in ameliorating the sanitary conditions under which our people live.

The improvement is due solely and directly to the efforts of the Council in abolishing insanitary filth collections, paving and draining yards, and similar works.

The improvement, in fact, is coincident with the change which has occurred from the town being one in which the old privy ashpit system was predominant. Whereas now the water carriage system has largely taken its place, and the old insanitary privies are being steadily abolished.



Table shewing deaths from Zymotic diseases in the Durham Urban District during the years 1884-1904 inclusive :—

YEAR.	Smallpox.	Measles.	Scarlet Fever.	Diphtheria.	Whooping Cough.	Enteric Fever.	Continued Fever.	Puerperal Fever.	Diarrhoea.	Erysipelas.	Total.	Rate.
1884	31	4	2	5	4	4	2	..	10	..	62	4.1
1885	4	12	1	..	1	1	..	..	7	..	26	1.7
1886	..	15	1	..	..	7	..	..	..	1	24	1.6
1887	..	2	1	3	5	3	..	..	7	2	23	1.5
1888	..	..	..	..	3	1	1	..	..	1	6	0.4
1889	..	..	5	3	5	3	..	..	5	..	21	1.4
1890	..	1	3	1	7	1	2	2	5	1	23	1.5
1891	..	..	1	4	4	3	..	..	5	2	19	1.2
1892	..	12	3	1	3	2	1	2	3	..	27	1.6
1893	5	3	2	..	..	1	..	3	4	1	19	1.2
1894	..	7	11	1	4	3	..	..	3	..	29	1.9
1895	..	2	4	.	3	3	..	..	2	..	14	0.9
1896	..	13	2	3	4	1	..	1	1	1	26	1.7
1897	..	..	1	..	8	2	..	..	8	..	19	1.2
1898	..	..	1	1	..	1	..	2	6	..	11	0.72
1899	..	4	..	..	..	1	..	..	4	..	9	0.59
1900	..	..	4	..	2	..	..	..	4	..	10	0.85
1901	..	7	2	3	2	1	..	..	15	..	30	2.0
1902	..	..	1	..	5	2	..	..	7	..	15	1.0
1903	..	3	1	2	1	..	..	..	13	..	20	1.35
1904	..	7	2	3	4	..	..	..	1	..	17	1.14

A Table of Vital Statistics for the Administrative County, having been forwarded to me by the Medical Officer of Health, I am enabled to shew comparative rates for the City and County of births and deaths generally, and of deaths from special diseases.

It will be noticed that in almost all particulars (excepting birth-rate) our figures compare most favourably with the corresponding County rates, especially in regard to the various Zymotic diseases.



Table of chief Vital Statistics for 1904, and their comparison with 1903, and the average of the ten years 1894-1903 in (1) the Administrative County of Durham, and (2) the Durham Urban District.

	Administrative County.			Durham Urban.		
	Annual Rate per 1,000 pop.		Mean Rates for yrs. '94-'03.	Annual Rate per 1,000 pop.		
	1904.	1903.		1904	1903	1902
Birth-rate .. ..	35·6	35·8	35·4	29·8	29·9	26·5
Death-rate .. ..	18·3	17·7	18·0	17·7	18·4	16·8
Zymotic Death-rate ..	2·59	2·01	2·20	1·14	1·35	1·0
Infant Mortality (per 1,000 births) .. ..	162	161	164	155·4	155·7	153·4
Small-pox .. ..	0·03	0·03	0·006	Nil.	Nil.	Nil.
Scarlet Fever .. ..	0·16	0·25	0·19	0·13	0·06	0·06
Diphtheria and Mem- branous Croup .. ..	0·29	0·29	0·17	0·20	0·13	Nil.
Fever (Enteric and Continued) .. ..	0·15	0·12	0·24	Nil.	Nil.	0·13
Measles .. ..	0·55	0·32	0·43	0·47	0·20	Nil.
Whooping Cough ..	0·43	0·24	0·35	0·26	0·06	0·27
Diarrhœa .. ..	0·95	0·73	0·78	0·07	0·87	0·47
Enteritis, &c. .. ..	0·38	0·38	0·62	1·07	0·20	0·47
Phthisis .. ..	1·07	1·09	1·18	1·64	1·89	0·95
Other Tubercular Diseases	0·92	0·93	0·90	0·73	0·40	Nil.
Respiratory Diseases ..	2·92	3·02	3·15	2·42	3·71	4·14

Notification of Infectious Disease.—60 cases of Infectious Disease have been notified during the year, as against 85 in the year 1903, 65 in 1902, and 98 in 1901.

The following Table shews the number of cases of each Zymotic disease notified during the years 1895-1904 inclusive :—

		1895	1896	1897	1898	1899	1900	1901	1902	1903	1904
Small-pox	..	0	0	0	2	0	0	0	2	28	19
Typhoid Fever	..	24	12	8	12	6	4	21	10	5	3
Puerperal Fever	..	1	1	0	3	0	0	0	0	0	0
Erysipelas	..	13	13	8	11	13	14	21	19	18	14
Scarlet Fever	..	129	35	48	36	10	51	49	32	31	15
Diphtheria	..	0	3	2	1	0	4	7	2	4	9

In Table III. appended to this report will be found particulars as to the year's notifications, as to the localities in which cases occurred, ages of patients, and the number removed to the Isolation Hospitals.

SMALL-POX.—Notwithstanding that this disease has been prevalent in various parts of the County during the year, we have kept wonderfully free from it since the month of January. During the first week of the year 15 cases occurred in rapid succession in the Durham Union Workhouse, and this, notwithstanding the vigorous measures adopted by the authorities of that Institution to prevent the spread of the disease. By the 21st of the month, however, the last case of that outbreak had been removed to the Houghall Hospital, and no further case has occurred in the Workhouse during the year.

On April 6th one sharp outbreak of the disease occurred in a house in South Street, but the patients were immediately removed, articles of bedding destroyed, and rooms disinfected, with the result that the town continued clear of the disease for many months.

On November 19th the third and last outbreak of the year occurred, the patient in this instance being a man who had but 3 or 4 days previously arrived at a house in Crossgate on a visit from Gateshead. The infection had therefore evidently been contracted in that town.

The patient was removed within a few hours of notification, and the bedding destroyed immediately afterwards, and the house very carefully fumigated and thoroughly cleansed.

In this case I thought it advisable for his wife and young family, who were accompanying him on his visit, to be removed to the Contact Ward at Houghall, where they remained until such time as it was absolutely safe for them to return home.

Intimation was sent to the Medical Officer of Gateshead, as well as to other parties to whom I deemed it necessary.

There is, as we know, considerable difference of opinion as to the advisability or propriety of removing Contacts, and in perhaps the great majority of cases this proceeding is unnecessary, but in certain circumstances I think it is decidedly the safer course.

In this particular case the patient made a rapid recovery, and his wife and family remained free from the disease.

While on the subject of Small-pox, I may take the opportunity of expressing my opinion that our Council could not do better than adopt the suggestion that has frequently been made, namely, of combining with some other district or districts, that is the Durham Rural District, and the Brandon and Byshottles District, for the purpose of providing a Joint Small-pox Hospital. The arrangement with the Rural District Council, whereby we have dealt with cases of Scarlet Fever, Diphtheria, and Enteric Fever from both their and our own Districts, and they with all cases of Small-pox from the two Districts, has certainly worked very satisfactorily; but it is manifestly impossible to continue it indefinitely, and I think it absolutely necessary that the Council should consider the question thoroughly, and decide as to their future course of action in the matter.



One thing is certain, that a Hospital for the immediate isolation of Small-pox must be provided, and there cannot be the least doubt that by means of such combination it could be done at much less expense than by erecting a Hospital solely for our own use.

TYPHOID FEVER.—Three cases only were notified during the year. one of these being at H.M. Prison, the infection having been contracted elsewhere.

Of the remaining two, one occurred in Co-operative Terrace, and one in Grape Lane. In the former some insanitary conditions were noted, of which notice was given and remedy made. In the latter no insanitary condition could be found, and no definite cause for the disease could be discovered.

I speak under the heading of deaths from Zymotic diseases to the notable and most gratifying diminution of Typhoid in this town, and so do not discuss the subject further here.

Of Puerperal Fever no case was notified, and of Erysipelas 14 cases. This is about our mean number for the last 10 years, and as far as one is able to judge sanitary progress appears to have very little effect on its incidence.

Of Scarlet Fever but 15 cases were notified, as against the mean number for the past 10 years of 43·7.

Of these, 10 were removed to the Gilesgate Hospital, and the usual steps taken after their removal to disinfect the houses from which they had come.

Of diphtheria a somewhat unusual number, viz., 9, occurred during the year. In some cases insanitary conditions were found and remedied, but in most no fault was to be made with the premises.



MEASLES.—During the year many cases of measles have occurred in different parts of the town, although the disease has never been so prevalent as has often previously been the case, the total number of deaths occurring from the complaint and its complications being only 7.

Most beneficial results have occurred from the closing of schools before the disease had obtained a thorough hold of the involved localities. I have always held the view that this complaint was mainly contracted at schools (for reasons which I have previously given in detail), and during the past year my contention has been proved conclusively.

Early in February the disease broke out rather suddenly in the Gilesgate district, and on February 12th I closed the Church, Board and Sunday Schools in that district, for 3 weeks. On the 3rd March, as the complaint, although much diminished had not disappeared, the Schools were further closed till the 18th, with the result that not half the number of children were attacked as would otherwise probably have been the case.

In April the disease attacked the St. Oswald district, and on the 29th I advised the closure of the school for 3 weeks, and on May 20th for a further period of two weeks, with similar beneficial results.

In December, cases occurred among the scholars attending the Blue Coat Infant Schools, which was accordingly closed a few days earlier (Dec. 16th) than would otherwise have been the case.

Similarly the St. Oswald Infant School was closed on 21st instead of 23rd.

DIARRHŒA.—I anticipated that after the hot and dry summer this disease would become very prevalent, and on July 28th, on my suggestion, the Council had leaflets as to means of prevention, &c., distributed throughout the town. Happily, however, our fears were not realised to anything like the extent that might have been expected.

ISOLATION HOSPITAL.—The improvements to which I referred in last year's report were completed early in the year (1904), and have to a very large extent removed the objections to the building which I made in my report for 1902. In that report I stated that owing to the warping of the woodwork the interior was apt to be draughty. This is now quite obviated by the asbestos lining, and the place is both comfortable and satisfactory for the treatment of patients. Secondly, I expressed my doubts as to the safety of the building. The Surveyor is now able to assure us that since the "stiffening" by iron diagonal windbracing, that no fears need be entertained in that respect. Lastly, I suggested the liability to fire of such a structure, but I am informed that the asbestos sheeting greatly reduces danger from that source.

During the year 44 patients have been treated in the Hospital, 10 Urban and 34 Rural.

The 10 Urban cases were Scarlet Fever, and the Rural cases were 24 Scarlet Fever and 10 Enteric Fever.

Results :—Urban, Scarlet Fever, 9 recoveries, 1 death.

„ Rural, Scarlet Fever, 24 recoveries, no deaths.

„ „ Enteric Fever, 10 recoveries, no deaths.

There were remaining in Hospital, Dec. 31st, '03—10.

„ „ „ '04— 1.

Great praise is due to the Nurse and Caretaker for the most satisfactory way in which they have performed their duties during the year.

SANITARY INSPECTION.—During the year a great amount of systematic inspection work has been carried out by our Sanitary Inspector, the results of which may be judged by the summary of work done in his department during the year. Joint inspections by Mr. Blythe and myself have also been made in various parts of the City, particularly Millburngate, Framwellgate, Sidegate, and Sherburn and Sunderland Roads. Continued progress has been made in the direction of abolishing insanitary privies and ashpits, 18 of these having been removed, and waterclosets substituted during the year. This number is, of course, not so great as in the previous year, when 102 such changes took place; but we must remember that, although there still exist places of this kind that we shall have to report upon, some hundreds of old privy-ashpits have been abolished during the past few years, and the number that require abolition must diminish as the work goes on.

In connection with ashpits generally, some 56 informal notices have been written by the Inspector, in a considerable number of which joint inspections have been made by Mr. Blythe and myself, particularly in those instances where it was found desirable to obtain formal notices by order of the Authority.

The paving of yards has received attention during the year, 30 cases of defective yard paving having been remedied.

The great improvement in the town in this respect is most obvious to anyone.



A considerable number of defects in connection with house drainage have received attention, 78 defective traps having been remedied, 60 disconnections from sewers effected, together with 70 other drainage faults.

Under the Housing of the Working Classes Act, 9 dwellings have been dealt with during the year. One has been permanently closed, 5 remain closed at the present time and 3 have been made habitable after formal notice.

The chief faults in these cases were general dilapidation, deficient lighting and ventilation, and filthy condition of premises.

As my reports of May and June, 1903, have just recently been printed and circulated for the purpose of further consideration, I will not on this occasion enlarge on the subject; but I hope that if the Borough Extension Scheme, on which an enquiry by the Local Government Board has quite recently taken place, become adopted, that many of our difficulties in that respect may tend to disappear.

NEW SEWERAGE SCHEME.—During the early part of the year the Council had under consideration the report of the Engineer recommending the tunnel scheme, which was finally adopted, and the Engineer was instructed to prepare complete plans, report, and estimates for sewers via tunnel and disposal works for 18,000 population, or 270,000 gallons per day. These were estimated to cost £22,085, and application for this sum was approved by the Council on June 1st, 1904.

Objection was raised to the proposed slight diversion of a footpath by the Durham Rural District Council, and eventually it was decided at a Committee meeting in December to alter the plans so as to retain the footpath in its existing position.



During the year insuperable difficulties have been met with in the attempt to repair the Sewer in Sunderland Road, and this work was terminated in October.

Plans and estimates have been prepared for the purpose of diverting the sewage from Sunderland Road via Edward Street, under the Railway, to connect with the new Sewer laid by Mr. Lomax, and several trial holes have been sunk along the proposed route, mostly shewing a satisfactory subsoil. This matter is still under discussion.

COMMON LODGING-HOUSES.—There are 5 licensed lodging-houses in the town, which have been under observation constantly by the Inspector, and also been inspected by myself during the year.

Three informal written notices have been sent by the Inspector, and one formal notice by order of the Authority. This latter had reference to Wilkinson's house, in Millburngate, which was found in October to be in far from its usual cleanly condition, and presenting also other insanitary features. This was remedied, but of course in places of this kind continual care is required to be exercised by the proprietors to prevent recurrences of such nuisances.

SLAUGHTER-HOUSES.—These, 21 in number, have been all regularly inspected by Mr. Blythe, who has only in 2 instances had to draw my attention to insanitary conditions connected therewith.

COWSHEDS, DAIRIES, AND MILKSHOPS.—The Cowsheds in the District numbered 11, and Milkshops 2.

During the year these have all been very carefully inspected by the Inspector and myself jointly, and investigation made as to cubic capacity, ventilation, paving, drainage, whitewashing, &c.; also as to storage of milk, cleansing of milk cans, and other particulars.

In 7 instances informal written notices were sent regarding matters requiring attention as follows :—

- (1) Paving and drainage not satisfactory ; white-washing required.
- (2) Channelling and paving defective.
- (3) Fallen into general insanitary condition.
- (4) Drainage into foldyard unsatisfactory.
- (5) Cleansing and limewashing required.
- (6) Defective paving.
- (7) Cleansing required.

All these faults have been remedied, and at the present time the condition of these premises is quite satisfactory.

FACTORIES AND WORKSHOPS.—A great amount of inspection in this department has been carried out by Mr. Blythe, as will be seen by the special report attached. The defects found have mostly been want of cleanliness and other minor nuisances ; but in a few instances graver insanitary conditions were present, and were reported on by the Inspector and myself after joint examination. Four underground bakehouses, which were in use in 1903 and did not meet my requirements in all particulars, have now been put into a thoroughly satisfactory condition, and I have accordingly recommended that they be granted certificates.

No legal proceedings have been required during the year, and I regard it as a very satisfactory feature of the year's work that there has been on the part of owners, &c., a noticeably increased readiness to carry out the sanitary improvements on which we have had to insist.

Appended to the Report are the Tables I., II., III., IV., as required by the Local Government Board.

Tables I. and II. deal with Births and Deaths, and are for the purpose of comparison with previous years.

Table III. shews the number of notified cases of infectious disease during the year, classified according to ages and localities, and also indicates the number of cases removed to Hospital from each locality.

Table IV. provides statistics of deaths during the year from various causes, and is classified according to ages and localities.

Appended to this report is a summary of work done in the Inspector's department during the year, and also the Annual Report of the Inspector under the Food and Drugs Act.

In conclusion, I may be allowed to express my appreciation and thanks for the hearty support accorded me by the Mayor and Council generally, and also to the officials of the Corporation for the ready help in various matters, more particularly to the Sanitary Inspector, Mr. Blythe, with whose work mine, as Health Officer, is much interwoven. To his energetic action the town owes much of its improved sanitary condition, and I personally am much indebted for his courtesy and ready assistance in every possible way.

I have the honour to be,

Mr. Mayor and Gentlemen,

Your Obedient Servant,

A. M. VANN,

Medical Officer of Health.

Durham, 6th February, 1905.



TABLE I.

Vital Statistics of Whole District during 1904 and previous years.

YEAR.	BIRTHS.		TOTAL DEATHS REGISTERED IN THE DISTRICT.				Total Deaths in Public Institutions in the District.	Deaths of Non-residents registered in Public Institutions in the District.	Deaths of residents registered in Public Institutions beyond the District.	NET DEATHS AT ALL AGES BELONGING TO THE DISTRICT.		
	Number	Rate.*	Under 1 Year of Age		At all Ages.					Number.	Rate.*	
			Number.	Rate per 1,000 Births registered.	Number.	Rate.*						
1	2	3	4	5	6	7	8	9	10	11	12	13
1894...	15000	421	28.0	55	130.6	347	23.1	...	56	...	291	19.4
1895 .	15000	479	31.9	95	198.3	361	24.0	...	36	...	325	21.6
1896...	14761	428	28.9	76	177.5	350	23.7	77	43	4	311	21.0
1897...	14761	432	29.3	78	180.5	310	21.0	65	38	7	279	18.9
1898...	14761	374	25.3	63	168.4	319	21.6	80	46	3	276	18.7
1899...	14761	398	26.9	61	153.2	327	22.1	76	55	5	277	18.7
1900...	14700	354	24.0	75	211.8	380	25.8	78	50	5	335	22.7
1901...	14659	443	30.0	80	180.5	389	26.5	98	63	2	328	22.3
1902...	14700	391	26.5	60	153.4	296	20.1	88	56	8	248	16.8
1903 ..	14785	443	29.9	69	155.7	322	21.7	92	52	3	273	18.4
Averages for Years 1894 to 1903.	14788.8	416.3	28.0	71.2	170.9	340.1	22.9	81.7	49.5	4.6	294.3	19.8
1904...	14875	444	29.8	69	155.4	334	22.4	108	74	4	264	17.7

\* Rates in Columns 4, 8, and 13 calculated per 1,000 of estimated population.

Area of District in acres (exclusive of area covered by water) .. 884

Total population at all ages	...	14,659	} At Census of 1901.
Number of inhabited houses	...	2,490	
Average number of persons per house		5.8	




TABLE II.

Vital Statistics of separate Localities in 1904 and previous years.

Names of Localities.			ST. NICHOLAS' SUB-DISTRICT.				ST. OSWALD'S SUB-DISTRICT.			
YEAR.			Population estimated to middle of each year.	Births registered.	Deaths at all Ages.	Deaths under 1 year.	Population estimated to middle of each year.	Births registered.	Deaths at all Ages.	Deaths under 1 year.
			<i>a.</i>	<i>b.</i>	<i>c.</i>	<i>d.</i>	<i>a.</i>	<i>b.</i>	<i>c.</i>	<i>d.</i>
1894	..	..	..	162	95	20	..	259	170	33
1895	..	..	..	158	120	39	..	321	179	53
1896	..	..	..	149	107	28	..	279	165	43
1897	..	..	..	133	85	21	..	299	160	54
1898	..	..	..	113	74	19	..	261	165	42
1899	..	.	..	131	79	14	..	267	172	45
1900	..	..	..	115	100	15	..	239	235	60
1901	..	..	..	159	96	25	..	284	232	55
1902	..	..	..	136	76	11	..	255	172	49
1903	..	..	..	154	86	18	..	289	187	51
Averages of Years 1894 to 1903.			..	141.0	91.8	21.0	..	275.3	183.7	48.5
1904	..	..	Total. 14875	160	97	19	..	284	167	50

TABLE III.  
Table of Infectious Disease notified during the Year 1904.

NOTIFIABLE DISEASE	CASES NOTIFIED IN WHOLE DISTRICT.						TOTAL CASES NOTIFIED IN EACH LOCALITY.		No. OF CASES REMOVED TO HOSPITAL FROM EACH LOCALITY.	
	At all Ages.	At Ages—Years.					St. Nicholas' Sub-District.	St. Oswald's Sub-District.	St. Nicholas' Sub-District.	St. Oswald's Sub-District.
		Under 1	1 to 5	5 to 15	15 to 25	25 to 65				
Small-pox	19	..	..	2	2	8	7	19	..	19
Diphtheria	9	..	†3	5	..	1	..	3	..	..
Erysipelas	14	..	1	..	3	9	1	5	..	..
Scarlet Fever	15	..	7	3	3	2	..	6	5	5
Enteric Fever	3	..	..	..	2	1	..	3	..	..
.										
TOTALS	60	..	11	10	10	21	8	36	5	24

. W. The locality in which a Workhouse is situated.

† Including case sent from outside district to Durham County Hospital for operation.  
Isolation Hospital—Gilesgate, in the St. Nicholas' Sub-District; Houghall (for Small-pox), in the District of the Durham Rural Council.

TABLE IV.—Causes of, and Ages at, Death during Year 1904.

CAUSES OF DEATH.	Deaths at the subjoined ages of "Residents" whether occurring in or beyond the District.							Deaths at all ages of "Residents" belonging to Localities whether occurring in or beyond the District.		Total Deaths whether of Residents or non "Residents" in Public Institutions in the District.
	All ages.	Under 1.	1 and under 5.	5 and under 15.	15 and under 25.	25 and under 65.	65 and upwards.	St. Nicholas Sub-District.	St. Oswald's Sub-District.	
Measles .. ..	7	3	2	2	..	..	..	4	3	..
Scarlet Fever ..	2	..	2	..	..	..	..	2	..	2
Whooping Cough ..	4	2	2	..	..	..	..	..	4	..
Diphtheria and Membranous Croup ..	3	..	1	2	..	..	..	2	1	1
Enteric Fever ..	..	..	..	..	..	..	..	..	..	1
Diarrhœa .. ..	1	1	..	..	..	..	..	..	1	3
Enteritis .. ..	16	14	2	..	..	..	..	3	13	..
Other septic diseases ..	..	..	..	..	..	..	..	..	..	1
Phthisis .. ..	24	..	4	..	6	14	..	6	18	4
Other tubercular diseases	11	3	4	3	..	1	..	6	5	1
Cancer, malignant disease	16	..	..	..	..	10	6	9	7	3
Bronchitis .. ..	24	5	6	..	..	5	8	7	17	3
Pneumonia .. ..	12	4	4	1	..	3	..	4	8	4
Alcoholism Cirrhosis of Liver } ..	4	..	..	..	..	4	..	..	4	2
Premature Birth ..	3	3	..	..	..	..	..	..	3	..
Diseases and accidents of parturition ..	1	..	..	..	..	1	..	..	1	2
Heart diseases ..	32	..	1	..	..	24	7	11	21	15
Accidents .. ..	6	..	..	..	..	4	2	2	4	18
Suicides .. ..	1	..	..	..	1	..	..	1	..	2
Murder .. ..	1	..	..	..	..	1	..	1	..	1
Judicial Execution ..	..	..	..	..	..	..	..	..	..	1
All other causes ..	96	34	7	..	1	20	34	39	57	44
All causes ..	264	69	35	8	8	87	57	97	167	108

Summary of Work done in the Inspector of Nuisances'  
Department during the year 1904.

					Number of In- formal written Notices by Inspector.	Number of formal notices by order of Authority.	Number of Nuisances abated after Notice.
I. PUBLIC HEALTH ACTS.							
Dwelling-houses and Schools.	{ Foul Conditions		...	...	17	...	16
	{ Structural Defects		...	...	32	...	32
Lodging-houses	..	...	...	...	3	1	3
Cowsheds	...	...	...	...	7	...	7
Bakehouses	...	...	...	...	4	...	4
Slaughter-houses	...	...	...	...	2	...	2
*Ashpits and Privies	...	...	...	...	56	13	50
Deposits of Refuse and Manure	..			...	5	...	5
Waterclosets	...	...	...	...	29	...	29
Defective Yard Paving...	...	...	...	...	36	13	30
House	{	Defective Traps	...	...	98	10	78
Drain-		No Disconnection from Sewers	...	...	64	...	65
age.		Other Faults	...	...	78	...	70
Animals Improperly kept	...	...	...	...	4	...	4
Offensive Trades	...	..	...	...	1	...	1
Smoke Nuisances	...	..	...	...	1	1	.
Other Nuisances	...	...	...	...	546	...	415
TOTALS					983	38	806

\* 18 w.c.'s fixed and same number of privies abolished up-to-date. Some more in hand.



	Number.
II. HOUSING OF THE WORKING CLASSES ACT, 1890.	
Formal Notices served ... ..	9
Dwellings dealt with ... ..	9 5 houses closed at present
Dwellings made habitable after formal notice ...	3
Dwellings permanently closed ... ..	1
III. FACTORY AND WORKSHOP ACT, 1901.	
Action taken, Notices served, &c. .. ..	29
IV. WATER, FOOD AND DRUGS.	
Seizures of Unwholesome Food ... ..	1
V. PRECAUTIONS AGAINST INFECTIOUS DISEASE.	
Lots of Infectious Bedding stoved or destroyed	2
Houses disinfected after Infections Disease ...	10
Schools           do.                   do.                   ...	1

R. BLYTHE,

Inspector of Nuisances.

January 28th, 1905.

# Factories, Workshops, Laundries, Workplaces and Homework.

## I.—INSPECTION.

Including Inspections made by Sanitary Inspectors or Inspector of Nuisances.

Premises.	Number of		
	Inspections.	Written Notices.	Prosecutions.
Factories .. .. . (Including Factory Laundries.)	12	..	} Nil.
Workshops .. .. . (Including Workshop Laundries)	80	28	
Workplaces .. .. .	8	1	
Homeworkers' Premises .. .. .	2	..	
TOTAL .. .. .	102	29	

## II.—DEFECTS FOUND.

Particulars.			Number of Defects	
			Found.	Remedied.
Want of Cleanliness .. .. .	..	..	29	27
Want of Ventilation .. .. .	..	..	1	1
Want of drainage of floors . . .	..	..	1	..
Other Nuisances .. .. .	..	..	32	30
Sanitary accommodations	Insufficient .. .. .	..	2	2
	Unsuitable or defective .. .. .	..	3	3
	Not separate for sexes .. .. .	..	1	1
TOTAL .. .. .	..	..	69	64

### III.—OTHER MATTERS.

Class.	Number.
Underground Bakehouses :—	
In use during 1903 .. ..	4
Certificates granted in 1903 .. ..	4
In use at the end of 1904 .. ..	4
	12
Total number of workshops on Register .. ..	103



CITY POLICE OFFICE,  
CLAYPATH, DURHAM,

23rd JANUARY, 1905.

FOOD AND DRUGS.

*To the Mayor and Members of the Corporation of  
Durham.*

GENTLEMEN,

I have the honour to submit my report as Inspector under the above Act for the year ending 31st December, 1904.

During the year I have obtained 37 samples, viz. :—12 Milk, 6 Whiskey, 6 Butter, 2 Black Currant Jam, 2 Gin, 2 Rum, 2 Brandy, 1 Apple Jelly, 1 Strawberry Jam, 1 Lard, 1 Pepper, and 1 Elderberry Wine, which I submitted to Mr. Pattison, Public Analyst, Newcastle-on-Tyne, whose certificates stated 34 to be genuine samples.

One of Milk contained non-fatty solids 8·93, milk fat 2·77, and water 88·30 per cent.

One of Whiskey contained 2·5 per cent. excess of water.

No proceedings were taken in these cases.

One of Elderberry Wine, the certificate of which states “I am of opinion that the same is not a sample of genuine Elderberry Wine: it contains no Elderberry juice. It consists chiefly of a solution of sugar, flavoured with Cloves and Ginger and coloured. It contains 0·79 of a grain of salicylic acid per pint.” The seller of this sample was proceeded against and fined 20s. and costs.

I am, Gentlemen,

Your Obedient Servant,

JOHN SMITH,  
Inspector.